



Heat Shrink Tubing > ZHTM: Heat Shrink Tubing, 2:1 Shrink Ratio



Primary Product Color: **Black**

Wall Material Type: **Pre-Coated Wrap Jacket**

Expanded Inside Diameter (Min): **24 mm [.945 in]**

Recovered Inside Diameter (Max): **12 mm [.472 in]**

Shrink Ratio: **2:1**

[All ZHTM: Heat Shrink Tubing, 2:1 Shrink Ratio \(9\)](#)

Features

Product Type Features

Wall Material Type	Pre-Coated Wrap Jacket
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Body Features

Material Systems Code	100
Fluid Type	Brake Fluid, Diesel Fuel, Hydraulic Fluid, Insulating Oil, Lubricating Oil, Unleaded Gasoline, Water
Primary Product Color	Black
Shrink Ratio	2:1
Primary Product Material	Chlorinated Polyolefin
Flexibility	Flexible

Dimensions

Recovered Wall Thickness (Nominal)	1.1 mm[.043 in]
Expanded Inside Diameter (Min)	24 mm[.945 in]
Recovered Inside Diameter (Max)	12 mm[.472 in]
Heat Shrink Tubing Size Range	12 – 24 mm[.472 – .945 in]

Usage Conditions

Shrink Temperature (Min)	121 °C
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Fluid Resistance	Splash Protection
Heat Shrink Tubing Flammability	Flame-Retardant
Operating Temperature Range	-30 – 105 °C
Heat Shrink Tubing Resistance	Mechanical Damage
Recovery Temperature	121 °C

Packaging Features

Packaging Method	Piece
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Other

Meets Low Outgassing Requirements	No
Product Source	US

Product Compliance

For compliance documentation, visit the product page on TE.com>

EU RoHS Directive 2011/65/EU	Compliant
EU ELV Directive 2000/53/EC	Compliant
China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JAN 2023 (233) Candidate List Declared Against: JAN 2023 (233) Does not contain REACH SVHC
Halogen Content	Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free
Solder Process Capability	Not applicable for solder process capability

Product Compliance Disclaimer

This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, mercury, PBB, PBDE, DBP, BBP, DEHP, DIBP, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2011/65/EU (RoHS2). Finished electrical and electronic equipment products will be CE marked as required by Directive 2011/65/EU. Components may not be CE marked. Additionally, the part numbers that TE has identified as EU ELV compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, and mercury, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2000/53/EC (ELV). Regarding the REACH Regulation, the information TE provides on SVHC in articles for this part number is based on the latest European Chemicals Agency (ECHA) ‘Guidance on requirements for substances in articles’ posted at this URL: <https://echa.europa.eu/guidance-documents/guidance-on-reach>

Customers Also Bought

ZHTM-24/12-0-SP

Black, 2:1, Shrinks To .472 in [12 mm], Chlorinated Polyolefin, Pre-Coated Wrap Jacket Wall Material, 24 mm [.945 in] Inner Diameter, Flame-Retardant





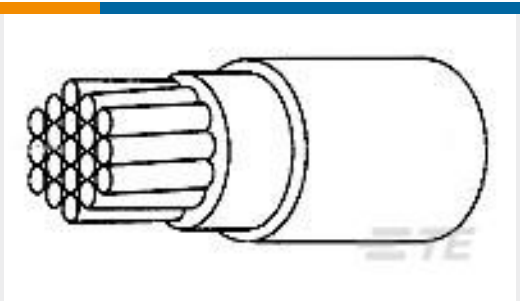
TE Part #2023374003

ZHTM: Heat Shrink Tubing, 2:1 Shrink Ratio



TE Part #5674734006

ATUM-19/6-X-SP



TE Part #E257433001

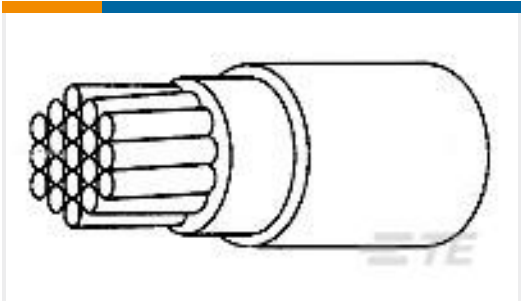
VG-95218-T020-E029

TE Part #CD45753001

VG-95218-T021-C008

TE Part #C829553001

VG-95218-T021-C004



TE Part #4099723001

VG-95218-T020-E089



TE Part #EF8168-000

THX-24C422-424-9



TE Part #NB08762001

ATUM-9/3-X-STK

Documents

Product Drawings

ZHTM-24/12-0-SP

English

Datasheets & Catalog Pages

raychem-tubing-product-selection-guide

English

1654025_Sec3_ZHTM

English

Product Specifications

Thermofit Zerohal ZHTM Tubing Elastomeric, Halgen-Free, Flame-Retarded, Flexible, Heat-Shrinkable

English

ZHTM SLEEVING

English

Product Environmental Compliance

Safety Datasheet

English

Safety Datasheet

English

Safety Datasheet

German

Safety Datasheet

Safety Datasheet

French



[Safety Datasheet](#)

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Instruction Sheets

[Instruction Sheet \(U.S.\)](#)

English